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Rather than focusing on the contributions of theoretical physicists to the understanding of the subatomic world and of the beginning of the universe - as most popular science books on particle physics do - this book is different in that, firstly, the main focus is on machine inventors and builders and, secondly, particle accelerators are not only described as discovery tools but also for their contributions to tumour diagnosis and therapy. The characters of well-known (e.g. Ernest Lawrence) and mostly unknown actors (e.g. Nicholas Christofilos) are outlined, including many colourful quotations. The overall picture supports the author's motto: "Physics is beautiful and useful". Advance appraisal: "Accelerators go all the way from the unique and gargantuan Large Hadron Collider to thousands of smaller versions in hospitals and industry. Ugo Amaldi has experience across the range. He has worked at CERN and has for many years been driving the application of accelerators in medicine. This is a must-read introduction to this frontier of modern technology, written beautifully by a world expert." Frank Close, Professor of Physics at Oxford University author of "The Infinity Puzzle" "This book should be read by school teachers and all those interested in the exploration of the microcosm and its relation to cosmology, and in the use of accelerators for medical applications. With a light hand and without formulae the author easily explains

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complicated matters, spicing up the text with amusing historical anecdotes. His reputation as an outstanding scientist in all the fields treated guarantees high standards.” Herwig Schopper, former CERN Director General author of "LEP - The Lord of the Collider Rings at CERN" “This book tells the story of modern physics with an unusual emphasis on the machine-builders who made it all possible, and their machines. Learning to accelerate particles has enabled physicists to probe the subatomic world and gain a deeper understanding of the cosmos. It has also brought numerous benefits to medicine, from the primitive X-ray machines of over a century ago to today's developments in hadron therapy for cancer. Amaldi tells this story in a most fascinating way.” Edward Witten, Professor of Mathematical Physics at the Institute for Advanced Study in Princeton; Fields Medal (1990)

James Kakalios explores the scientific plausibility of the powers and feats of the most famous superheroes — and discovers that in many cases the comic writers got their science surprisingly right. Along the way he provides an engaging and witty commentary while introducing the lay reader to both classic and cutting-edge concepts in physics, including: What Superman’s strength can tell us about the Newtonian physics of force, mass, and acceleration How Iceman’s and Storm’s powers illustrate the principles of thermal dynamics The physics behind the death of Spider-Man’s girlfriend Gwen Stacy Why physics professors gone bad are the most dangerous evil geniuses!

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Pairing two seemingly disparate elements an orchestra conductor and a grove of trees award-winning artist Laetitia Devernay herself orchestrates a visual magnum opus. Her spare, yet intricate, illustrations truly appear to take flight before our eyes and her wordless narrative nearly roars with sound as the conductor prompts the leaves to rustle, then whirl, then swirl to unexpected life with each turn of the page. It is a celebration of creativity, imagination, storytelling, and the renewing power of nature that will entrance readers of every age.

Fully updated and matched to the Cambridge syllabus, this stretching Student Book is trusted by teachers around the world to support advanced understanding and achievement at IGCSE. The popular, stretching approach will help students to reach their full potential. Written by an experienced author, Stephen Pople, this updated edition is full of engaging content with up-to-date examples to cover all aspects of the Cambridge syllabus. The step-by-step approach will lead students through the course in a logical learning order building knowledge and practical skills with regular questions and practical activities. Extension material will stretch the highest ability students and prepare them to take the next step in their learning. Practice exam questions will consolidate student understanding and prepare them for exam success. Each book is accompanied by free online access to a wealth of extra support for students including practice exam questions, revision checklists and advice on how to prepare for an examination.

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Le traiettorie della fisica.azzurro da Galileo a Heisenberg : [guida per l'insegnante]Le traiettorie della fisica. azzurro. Da Galileo a Heisenberg. Con espansione online. Per le Scuole superioriLe traiettorie della fisica.azzurro. Idee per imparare. Meccanica. Termodinamica. Onde. Per il 2° biennio delle Scuole superioriOhioSimon & Schuster THE BASIS FOR THE CANNES FILM FESTIVAL'S PALMA D'OR-NOMINATED FILM Set in an upper-middle-class Tel Aviv apartment building, this best-selling and warmly acclaimed Israeli novel examines the interconnected lives of its residents, whose turmoils, secrets, unreliable confessions, and problematic decisions reveal a society in the midst of an identity crisis. On the first floor, Arnon, a tormented retired officer who fought in the First Intifada, confesses to an army friend with a troubled military past how his obsession about his young daughter's safety led him to lose control and put his marriage in peril. Above Arnon lives Hani, known as "the widow," whose husband travels the world for his lucrative job while she stays at home with their two children, increasingly isolated and unstable. When her brother-in-law suddenly appears at their door begging her to hide him from loan sharks and the police, she agrees in spite of the risk to her family, if only to bring some emotional excitement into her life. On the top floor lives a former judge, Devora. Eager to start a new life in her retirement, Devora joins a social movement, desperately tries to reconnect with her

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estranged son, and falls in love with a man who isn't what he seems. A brilliant novelist, Eshkol Nevo vividly depicts how the grinding effects of social and political ills play out in the psyche of his flawed yet compelling characters, in often unexpected and explosive ways.

Compact Preliminary for Schools is a focused, 50 - 60 hour course for Cambridge English: Preliminary for Schools, also known as Preliminary English Test (PET). The Student's Book features eight topic based units with focused exam preparation to maximise the performance of school-age learners. Units are divided in the order of the exam with pages on Reading, Writing, Listening and Speaking. A Grammar reference covers key areas in the syllabus and unit based wordlists include target vocabulary with definitions. The Student's Book also features a revision section and full practice test. The accompanying CD-ROM provides interactive grammar, vocabulary and exam skills tasks including listening. Course users also have exclusive access to a further practice test with audio via a URL in the Student's Book.

'The book should be an interesting read for advanced students within the field and for experts working in it.'

Contemporary Physics

In 1887, Michelson and Morley tried to observe in laboratory the 'ether drift' by measuring a small difference in the velocity of two perpendicular light beams. The result of their

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measurements, however, was much smaller than the classical prediction and interpreted as a 'null result'. This was crucial to stimulate the first pioneering formulations of relativity and, as such, it represents a fundamental step in the history of science. Since then, many repetitions of that original experiment have been performed with better and better sensitivity and the standard conclusion has been always the same: no genuine ether drift has ever been detected. However, in the authors' new scheme, the small irregular residuals observed in laboratory show surprising correlations with the direct observations of the Cosmic Microwave Background (CMB) with satellites in space. This opens the possibility of finally linking the CMB to a fundamental reference frame for relativity, with substantial implications for the interpretation of non-locality in the quantum theory. The importance of the issue would require new dedicated experimental tests and significant improvements in the data analysis. Otherwise, without such more stringent checks, these crucial experiments will remain forever as an enigma for physics and the history of science. The book illustrates the many facets of this research together with historical accounts on some leading scientists involved in these measurements.

Today large numbers of geoscientists apply thermodynamic theory to solutions of a variety of problems in earth and planetary sciences. For most problems in

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chemistry, the application of thermodynamics is direct and rewarding. Geoscientists, however, deal with complex inorganic and organic substances. The complexities in the nature of mineralogical substances arise due to their involved crystal structure and multicomponental character. As a result, thermochemical solutions of many geological-planetological problems should be attempted only with a clear understanding of the crystal-chemical and thermochemical character of each mineral. The subject of physical geochemistry deals with the elucidation and application of physico-chemical principles to geosciences. Thermodynamics of mineral phases and crystalline solutions form an integral part of it. Developments in mineralogic thermodynamics in recent years have been very encouraging, but do not easily reach many geoscientists interested mainly in applications. This series is to provide geoscientists and planetary scientists with current information on the developments in thermodynamics of mineral systems, and also provide the active researcher in this rapidly developing field with a forum through which he can popularize the important conclusions of his work. In the first several volumes, we plan to publish original contributions (with an abundant supply of background material for the uninitiated reader) and thoughtful reviews from a number of researchers on mineralogic thermodynamics, on the application of thermochemistry to planetary

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phase equilibria (including meteorites), and on kinetics of geochemical reactions. Long-Term Athlete Development describes how to systematically develop sporting excellence and increase active participation in local, regional, and national sport organizations. This resource describes the long-term athlete development (LTAD) model, an approach to athlete-centered sport that combines skill instruction with long-term planning and an understanding of human development. By learning about LTAD, sport administrators and coaches will gain the knowledge and tools to enhance participation and improve performance and growth of athletes. This text offers the first in-depth and practical explanation of the LTAD model. Long-Term Athlete Development integrates current research on talent development and assessment into practice to help sport leaders plan athletic development across the life span or design detailed programs for a particular group, including those with physical and cognitive disabilities. Authors Balyi, Way, and Higgs—pioneers and veteran LTAD facilitators—critique current talent development models, discuss the limitations of the LTAD model, and demonstrate the benefits of LTAD as a new approach. By integrating knowledge of these models, readers are able to analyze their own programs and take steps to improve sport and coaching philosophies and reach adherence and performance goals. Explanations and visuals of concepts help readers

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understand the state of knowledge in talent identification and long-term athlete development. Chapter-opening vignettes offer examples of how the LTAD model can be used to alleviate common issues. Listings at the end of each chapter offer sources for further study, and reflection questions guide readers in applying the content. The text offers a logical presentation of current research:

- Key factors that guide and shape the LTAD model, such as physical literacy, the differences between early- and late-specialization sports, and variations in trainability across the life span
- Information on the time needed to develop excellence in sport and how periodization of training is related to the developmental stage of the athlete
- The seven stages of LTAD, from development of fundamental movement skills to training for elite competition and the transition to lifelong physical activity
- Considerations in the development of optimal programs for participants passing through each of the seven stages

Long-Term Athlete Development is an essential guide to improving the quality of sport, developing high-performance athletes, and creating healthy, active citizens. It offers parents, coaches, and sport administrators a deeper understanding of the LTAD model, helping them create an enjoyable, developmentally appropriate environment for both competitive athletes and enthusiastic participants.

This volume provides a sample of the present research on the foundations of quantum

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mechanics and related topics by collecting the papers of the Italian scholars who attended the conference entitled "The Foundations of Quantum Mechanics: Historical Analysis and Open Questions" (Lecce, 1998). The perspective of the book is interdisciplinary, and hence philosophical, historical and technical papers are gathered together so as to allow the reader to compare different viewpoints and cultural approaches. Most of the papers confront, directly or indirectly, the objectivity problem, taking into account the positions of the founders of QM or more recent developments. More specifically, the technical papers in the book pay special attention to the interpretation of the experiments on Bell's inequalities and to decoherence theory, but topics on unsharp QM, the consistent-history approach, quantum probability and alternative theories are also discussed. Furthermore, a number of historical and philosophical papers are devoted to Planck's, Weyl's and Pauli's thought, but topics such as quantum ontology, predictivity of quantum laws, etc., are treated.

Fans of Chris Ferrie's ABCs of Science, Organic Chemistry for Babies, and Quantum Physics for Babies will love this introduction to Einstein's most famous theory! Help your future genius become the smartest baby in the room! It only takes a small spark to ignite a child's mind. Written by an expert, General Relativity for Babies is a colorfully simple introduction to Einstein's most famous theory. Babies (and grownups!) will learn all about black holes, gravitational waves, and more. With a tongue-in-cheek approach that adults will love, this installment of the Baby University board book series is the

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perfect way to introduce basic concepts to even the youngest scientists. After all, it's never too early to become a quantum physicist! If you're looking for books similar to Baby Loves Science by Ruth Spiro, quantum information for babies, or infant science books, look no further! General Relativity for Babies offers fun early learning for your little quantum physicist!

After v. 11 each volume is divided into two parts containing respectively the Memorie di matematica and the Memorie fisica.

This textbook on the nature of space and time explains the new theory of Space Dynamics, which describes the dynamics of gravity as the evolution of conformal 3-dimensional geometry. Shape Dynamics is equivalent to Einstein's General Relativity in those situations in which the latter has been tested experimentally, but the theory is based on different first principles. It differs from General Relativity in certain extreme conditions. Shape Dynamics allows us to describe situations in which the spacetime picture is no longer adequate, such as in the presence of singularities, when the idealization of infinitesimal rods measuring scales and infinitesimal clocks measuring proper time fails. This tutorial book contains both a quick introduction for readers curious about Shape Dynamics, and a detailed walk-through of the historical and conceptual motivations for the theory, its logical development from first principles and a description of its present status. It includes an explanation of the origin of the theory, starting from problems posed first by Newton more than 300 years ago. The book will

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interest scientists from a large community including all foundational fields of physics, from quantum gravity to cosmology and quantum foundations, as well as researchers interested in foundations. The tutorial is sufficiently self-contained for students with some basic background in Lagrangian/Hamiltonian mechanics and General Relativity. In 1851, struggling, self-taught physicist Léon Foucault performed a dramatic demonstration inside the Panthéon in Paris. By tracking a pendulum's path as it swung repeatedly across the interior of the large ceremonial hall, Foucault offered the first definitive proof -- before an audience that comprised the cream of Parisian society, including the future emperor, Napoleon III -- that the earth revolves on its axis. Through careful, primary research, world-renowned author Amir Aczel has revealed the life of a gifted physicist who had almost no formal education in science, and yet managed to succeed despite the adversity he suffered at the hands of his peers. The range and breadth of Foucault's discoveries is astonishing: He gave us the modern electric compass, devised an electric microscope, invented photographic technology, and made remarkable deductions about color theory, heat waves, and the speed of light. Yet until now so little has been known about his life. Richly detailed and evocative, *Pendulum* tells of the illustrious period in France during the Second Empire; of Foucault's relationship with Napoleon III, a colorful character in his own right; and -- most notably -- of the crucial triumph of science over religion. Dr. Aczel has crafted a fascinating narrative based on the life of this most astonishing and largely unrecognized scientist,

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whose findings answered many age-old scientific questions and posed new ones that are still relevant today.

From the linear accelerators used for cancer therapy in hospitals, to the giant atom smashers at international laboratories, this book provides a simple introduction to particle accelerators.

Studies similarities between the concept of a harmonious universe that emerges from the theories of modern physics and the vision of a continuously interactive world conceived by Eastern mystics.

"The course is designed to maximise the performance of school-age learners. It features eight units covering the core topics, vocabulary, grammar and skills needed for all four exam papers for the revised Cambridge English: First (FCE) for Schools exam from 2015. Two teen-inspired topics in each unit ensure the entire exam syllabus is covered, and can also act as a basis for CLIL-based extension activities and projects. Grammar sections and a Grammar Reference help students build up the accurate language structure necessary for the Use of English parts of the new Reading and Use of English paper, while B2-level vocabulary is targeted, drawing on insights from English Profile, and brought together in a Wordlist based on key vocabulary from the units. 'Exam tips', and grammar and vocabulary exercises teach students to avoid common mistakes

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identified in Cambridge's unique collection of real exam papers, the Cambridge Learner Corpus."--Publisher description.

Celebrated for its atlas-style format, appropriately detailed anatomical illustrations, and exceptionally clear photographs of tissues and cadavers, the Seventh Edition of the award-winning Human Anatomy presents practical applications of anatomy and physiology in a highly visual format. Select Clinical Notes feature dynamic layouts that integrate text with visuals for easy reading. Clinical Cases relate clinical stories that integrate text with patient photos and diagnostic images for applied learning. Time-saving study tools, including end-of-chapter practice and review, help students arrive at a complete understanding of human anatomy. This package contains: *Human Anatomy, Seventh Edition Venture into First for Schools is an international course preparing secondary students for the Cambridge English: First for Schools exam. The course prepares students for exam success from the outset with systematic skills development and scaffolded exam practice in every unit. Exam guides offer tips and hints for every task type, and students can prepare for the examination with the online practice test. Covering a huge range of topics, from The Simpsons to Shakespeare, the course encourages cultural insights and critical thinking and keeps students motivated to achieve success.

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With Europe convulsed in wars over religion, a young theology student finds himself siding with heretics and the disenfranchised while confronting an agent of the Vatican who is determined to hunt down and destroy enemies of the faith, in a meticulously rendered historical thriller set against the backdrop of the Reformation. Reprint.

When *The Unbearable Lightness of Being* was first published in English, it was hailed as "a work of the boldest mastery, originality, and richness" by critic Elizabeth Hardwick and named one of the best books of 1984 by the *New York Times Book Review*. It went on to win the *Los Angeles Times Book Prize for Fiction* and quickly became an international bestseller. Twenty years later, the novel has established itself as a modern classic. To commemorate the anniversary of its first English-language publication, HarperCollins is proud to offer a special hardcover edition.

A young woman in love with a man torn between his love for her and his incorrigible womanizing; one of his mistresses and her humbly faithful lover -- these are the two couples whose story is told in this masterful novel. Controlled by day, Tereza's jealousy awakens by night, transformed into ineffably sad death-dreams, while Tomas, a successful surgeon, alternates loving devotion to the dependent Tereza with the ardent pursuit of other women. Sabina, an independent, free-spirited artist, lives her life as a series of betrayals -- of parents, husband, country, love itself -- whereas her lover, the intellectual Franz, loses all because of his earnest goodness and fidelity. In a world in which lives are shaped by irrevocable choices and by fortuitous events, a world in which everything

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occurs but once, existence seems to lose its substance, its weight. Hence we feel, says the novelist, "the unbearable lightness of being" -- not only as the consequence of our private acts but also in the public sphere, and the two inevitably intertwine. This magnificent novel encompasses the extremes of comedy and tragedy, and embraces, it seems, all aspects of human existence. It juxtaposes geographically distant places (Prague, Geneva, Paris, Thailand, the United States, a forlorn Bohemian village); brilliant and playful reflections (on "eternal return," on kitsch, on man and animals -- Tomas and Tereza have a beloved doe named Karenin); and a variety of styles (from the farcical to the elegiac) to take its place as perhaps the major achievement of one of the world's truly great writers.

"Extraordinary...beautifully precise...[an] earnestly ambitious debut."—The New York Times Book Review "A wild, angry, and devastating masterpiece of a book."—NPR "[A] descendent of the Dickensian 'social novel' by way of Jonathan Franzen: epic fiction that lays bare contemporary culture clashes, showing us who we are and how we got here."—O, The Oprah Magazine One sweltering night in 2013, four former high school classmates converge on their hometown in northeastern Ohio. There's Bill Ashcraft, a passionate, drug-abusing young activist whose flailing ambitions have taken him from Cambodia to Zuccotti Park to post-BP New Orleans, and now back home with a mysterious package strapped to the undercarriage of his truck; Stacey Moore, a doctoral candidate reluctantly confronting her family and the mother of her best friend

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and first love, whose disappearance spurs the mystery at the heart of the novel; Dan Eaton, a shy veteran of three tours in Iraq, home for a dinner date with the high school sweetheart he's tried desperately to forget; and the beautiful, fragile Tina Ross, whose rendezvous with the washed-up captain of the football team triggers the novel's shocking climax. Set over the course of a single evening, Ohio toggles between the perspectives of these unforgettable characters as they unearth dark secrets, revisit old regrets and uncover—and compound—bitter betrayals. Before the evening is through, these narratives converge masterfully to reveal a mystery so dark and shocking it will take your breath away.

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